

Title (en)
PHOSPHORESCENT HOMOLEPTIC TRIS-[DEUTERATED-2(2-PYRIDINYL)PHENYL]-IRIDIUM COMPLEXES FOR USE IN LIGHT-EMITTING DEVICES

Title (de)
PHOSPHORESZENDE HOMOLEPTISCHE TRIS-[DEUTERIERTE-2(2-PYRIDINYL)PHENYL]-IRIDIUM-KOMPLEXE ZUR VERWENDUNG IN LICHEMITTIERENDEN VORRICHTUNGEN

Title (fr)
COMPLEXES TRIS-[DEUTÉRÉ-2(2-PYRIDINYL)PHÉNYL]-IRIDIUM PHOSPHORESCENT DEVANT ÊTRE UTILISÉS DANS DES DISPOSITIFS ÉMETTANT DE LA LUMIÈRE

Publication
EP 3882254 B1 20231004 (EN)

Application
EP 21170506 A 20140221

Priority
• US 201361767508 P 20130221
• US 201313798972 A 20130313
• US 201313867750 A 20130422
• EP 17202119 A 20140221
• EP 14156167 A 20140221

Abstract (en)
[origin: EP2769982A2] The application regards heteroleptic iridium complexes, devices containing the same such as e.g. LED and OLED devices. Formulations including such complexes are described. The complexes can have the formula $\text{Ir}(\text{L}_1)_n(\text{L}_2)_{3-n}$, wherein the first ligand L_1 has Formula I, the second ligand L_2 has Formula II, L_1 is different from L_2 ; R_1 is a partially or fully deuterated group consisting of alkyl and cyloalkyl. The other variables are as defined in the claims. A representative example from the application is compound 10, illustrating the generation of the heteroleptic complexes:

IPC 8 full level
C07F 15/00 (2006.01); **C09K 11/06** (2006.01); **C09K 11/87** (2006.01); **H05B 33/14** (2006.01); **H10K 85/30** (2023.01); **H10K 99/00** (2023.01); **H10K 101/10** (2023.01)

CPC (source: EP)
C07F 15/0033 (2013.01); **C09K 11/06** (2013.01); **H05B 33/14** (2013.01); **H10K 85/342** (2023.02); **C09K 2211/1007** (2013.01); **C09K 2211/1029** (2013.01); **C09K 2211/1088** (2013.01); **C09K 2211/185** (2013.01); **H10K 50/11** (2023.02); **H10K 2101/10** (2023.02); **Y02E 10/549** (2013.01)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2769982 A2 20140827; **EP 2769982 A3 20141112**; **EP 2769982 B1 20171122**; EP 3301099 A1 20180404; EP 3301099 B1 20210428; EP 3882254 A1 20210922; EP 3882254 B1 20231004

DOCDB simple family (application)
EP 14156167 A 20140221; EP 17202119 A 20140221; EP 21170506 A 20140221